

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	445	703/2.ccls. and @pd>="20080201"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 06:48
L7	23	(flow adj induced adj crystall\$7)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:40
L8	1	(flow adj induced adj crystal\$7)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:45
L9	2	(flow adj induced adj crystall\$7) and (free adj energy)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:46
L10	17	fic and (free adj energy)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:47

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flow induced free energy

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**Effect of mild hypothermia on ischemia-induced release of neurotransmitters and free fatty acids in ...** - ► [ahajournals.org \[PDF\]](#)

R Busto, MY Globus, WD Dietrich, E Martinez, I ... - Stroke, 1989 - Am Heart Assoc  
... does not have an effect on the magnitude of flow reduction induced by 20 ... Cortical and striatal free fatty acid levels of the different experimental ...

Cited by 611 - Related articles - Web Search - All 4 versions

**Dynamic coupling between stress and composition in polymer** - ► [inria.fr \[PDF\]](#)

M Doi, A Onuki - J. Phys. II France, 1992 - edpsciences.org  
... minimizing the free energy in nonequilibrium states [3, 4]. Page 2. 1632 JOURNAL DE PHYSIQUE II N°8 Experimental studies of the flow-induced polymer migration ...

Cited by 157 - Related articles - Web Search - All 8 versions

**Extensional flow induced miscibility in a polymer blend**

JD Katsaros, MF Malone, HH Winter - Polymer Bulletin, 1986 - Springer  
... A thermodynamic approach has been used to interpret flow induced phase transitions in ... "free energy" elevation of dilute solutions in a flow field based on ...

Cited by 24 - Related articles - Web Search - All 2 versions

[CITATION] **Mechanisms of flow induced crystallization**

AJ McHugh - Polymer Engineering and Science, 1982

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**A continuum model for flow-induced crystallization of polymer melts**

AK Doufas, IS Dairanieh, AJ McHugh - Journal of Rheology, 1999 - link.aip.org  
... Flow-induced crystallization (FIC) is an important phenomenon in ... growth habits that occur under flow orientation, quantitative ... in the bulk free energy term of ...

Cited by 45 - Related articles - Web Search - BL Direct - All 5 versions

**Flow-induced mixing, demixing, and phase transitions in polymeric fluids**

RG Larson - Rheologica Acta, 1992 - Springer  
... in cone-and-plate flow, we need an expression for the free energy density f ... Larson, Flow-induced mixing, demixing, and phase transitions in polymeric fluids 503 ...

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[CITATION] **Flow-induced crystallization of linear polyethylene above its normal melting point**

V Tan, CG Gogos - Polymer Engineering and Science, 1976

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[CITATION] **Microrheological Modeling of Flow-Induced Crystallization**

S Coppola, N Grizzuti, PL Maffettone - MACROMOLECULES, 2001 - ACS AMERICAN CHEMICAL SOCIETY

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**Modeling of the rheology and flow-induced concentration changes in polymer solutions**

VG Mavrantzas, AN Beris - Physical Review Letters, 1992 - APS

... in an effort to describe stress-induced con- centration [4 ... the Euler equations for ideal fluid flow in a ... M pu, and a general internal free-energy density,  $h_e(\rho)$  ...

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... Flow-induced crystallization (FIC) is an important phenomenon in ... growth habits that occur under flow orientation, quantitative ... in the bulk free energy term of ...

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S Coppola, N Grizzuti, PL Maffettone - MACROMOLECULES, 2001 - ACS AMERICAN CHEMICAL SOCIETY

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**A continuum model for the dynamics of flow-induced crystallization**

AC Bushman, AJ McHugh - Journal of Polymer Science Part B Polymer Physics, 1996 - doi.wiley.com

... allows comparison to published data for flow-induced ... STRAIN-INDUCED CRYSTALLIZATION

Several authors have derived free-energy expressions for the quiescent ...

Cited by 20 - Related articles - Web Search - BL Direct - All 3 versions

**... between kinetics and rheological parameters in the flow-induced crystallization of thermoplastic ...**

S Acierno, S Coppola, N Grizzuti, PL Maffettone - MACROMOLECULAR SYMPOSIA, 2002 - doi.wiley.com

... modeling of the FIC. Within this framework, dumbbell-like models have been initially

used to calculate a flow-induced change in the free energy of the ...

Cited by 9 - Related articles - Web Search - BL Direct - All 2 versions

**Simulation of melt spinning including flow-induced crystallization Part I. Model development and ...**

AK Doufas, AJ McHugh, C Miller - Journal of Non-Newtonian Fluid Mechanics, 2000 - Elsevier

... is based on Flory's strain-induced crystallization model ... complex boundary conditions

(air drag, free surface, heat ... Thus the fiber flow can be modeled with a 1 ...

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**Effect of molecular weight on the flow-induced crystallization of isotactic poly (1-butene)**

S Acierno, B Palomba, HH Winter, N Grizzuti - Rheologica Acta, 2003 - Springer

... Flow-Induced Crystallization (FIC) is the common term used to indicate ... of the melt free energy ... of high MW chains should enhance the flow-induced nucleation ...

Cited by 27 - Related articles - Web Search - BL Direct - All 3 versions

**A model for post-flow induced crystallization: General equations and predictions**

R Zheng, PK Kennedy - Journal of Rheology, 2004 - link.aip.org

... The phenomenon is usually called flow-induced crystallization (FIC) ... explains the exact driving force for FIC and how ... phase is in a lower free energy state than ...

Cited by 13 - Related articles - Web Search - BL Direct - All 5 versions

**Effects of the degree of undercooling on flow induced crystallization in polymer melts**

S Coppola, L Balzano, E Gioffredi, PL Maffettone, ... - Polymer, 2004 - Elsevier

... One of the first models of FIC was proposed by McHugh [15]. ... In particular the free energy jump included a flow-induced term, which was calculated by ...

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### Effects of the degree of undercooling on flow induced ...

often referred to as **flow-induced** crystallization (**FIC**). .... be concluded that also the **flow-induced free energy** term is ...

[linkinghub.elsevier.com/retrieve/pii/S0032386104002733](http://linkinghub.elsevier.com/retrieve/pii/S0032386104002733) - Similar pages  
by S Coppola - 2004 - Cited by 8 - Related articles - All 4 versions

### Polymer Testing : Influence of flow on the global crystallization ...

In most polymer **flow induced** crystallization (**FIC**) experiments, ... where  $\Delta G$  is the **free energy** change of the melt and  $\Delta G_f$  is the **flow-induced free energy** ...

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### [PDF] Flow-induced crystallization of polymer: theory and experiments

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usually know as **Flow-Induced Crystallization (FIC)**. It is generally accepted that the main action of the ... conditions the **flow-induced excess free energy** ...  
[esaform2008.insa-lyon.fr/proceedings/MS10/p\\_Ac\\_313.pdf](http://esaform2008.insa-lyon.fr/proceedings/MS10/p_Ac_313.pdf) - Similar pages

### Flow-induced crystallization of polymer: theory and experiments

polydisperse systems under **flow** conditions. Theoretical predictive models for **FIC** usually rely ... conditions the **flow-induced excess free energy** ...  
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### Microrheological modeling of flow-induced crystallization

The problem of **flow-induced** crystallization (**FIC**) of polymer melts is addressed ... (DE-IAA) is used to calculate the **flow-induced** change of **free energy** ...  
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by S COPPOLA - 2001 - Cited by 35 - Related articles - All 4 versions

### Coupling between kinetics and rheological parameters in the flow ...

**Flow Induced Crystallization (FIC)** is the common term to indicate the ... which acts on both the polymer relaxation time and the **free energy** jump between ...  
[cat.inist.fr/?aModele=afficheN&cpsidt=14182083](http://cat.inist.fr/?aModele=afficheN&cpsidt=14182083) - Similar pages  
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### A continuum model for the dynamics of flow-induced crystallization

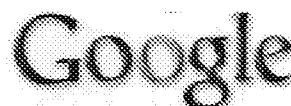
**Flow-induced** crystallization (**FIC**) plays a central role in polymer processing. .... expression for the Helmholtz **free energy**: Mixed **Flow Kinematics** ...  
[doi.wiley.com/10.1002/\(SICI\)1099-0488\(199610\)34:14%3C2393::AID-POLB9%3E3.3.CO;2-H](http://doi.wiley.com/10.1002/(SICI)1099-0488(199610)34:14%3C2393::AID-POLB9%3E3.3.CO;2-H) - Similar pages

### Crystallization in Mixed Shear/Extensional Flows

the **FIC**. Within this framework, dumbbell-like models have been initially used to calculate a **flow-induced** change in the **free energy** of the amorphous phase; ...  
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### Crystalline spherulitic growth kinetics during shear for linear ...

This means that the **flow-induced** change of **free energy** decreases as the ... the best explanation for **FIC** behavior during the crystallization growth step. ...

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**Flow-induced phase separation in polymer solutions**

The effect of **flow-induced** chain deformation on the polymer-solvent interaction **energy** .... This results in the following simple form for the **free energy**: ...  
[www.iop.org/EJ/article/0295-5075/42/4/407/42410.html](http://www.iop.org/EJ/article/0295-5075/42/4/407/42410.html) - Similar pages  
by K de Moel - 1998 - Cited by 1 - Related articles - All 17 versions

**Flow-induced nonequilibrium thermodynamics of lamellar ...**

The values for the derivative of the **free energy** with respect to the mean ... Significant **flow-induced** changes are calculated, steadily increasing as the ...  
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by J MUKHERJEE - 2004 - Cited by 1 - Related articles - All 2 versions

**Flow-induced Crystallization in Polymer Systems - Google Books Result**

by Robert L. Miller - 1979 - Science - 370 pages  
The **free energy** of formation of the critical size nucleus includes an additional ... While the hydrodynamics of **flow-induced** crystallizations are not well ...  
[books.google.com/books?isbn=0677125402...](http://books.google.com/books?isbn=0677125402...)

**Flow-induced crystallization of polymer: theory and experiments**

using the so-called Independent Alignment Approximation (IAA) approximation. In this, conditions the **flow-induced excess free energy** ...  
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is the quiescent **free energy** change at the crystallization temperature and DG. f. the **flow-induced free energy** change of the melt phase. ...  
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**A continuum model for the dynamics of flow-induced crystallization**

Helmholtz **Free Energy**: Crystallizing System. Our physical model for **flow-induced** crystallization is closely related to that of Gaylord and Lohse2V2\* ...  
[doi.wiley.com/10.1002/\(SICI\)1099-0488\(199610\)34:14%3C239::AID-POLB9%3E3.3.CO;2-H](http://doi.wiley.com/10.1002/(SICI)1099-0488(199610)34:14%3C239::AID-POLB9%3E3.3.CO;2-H) - Similar pages

**IOP: Kinematics, Free Energy and Dissipation in the Case of ...**

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values of the possible set of transformation strains and plastic **flow** in the martensitic state. Beside the chemical part of the **free energy**, ...  
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**An Investigation of Shear-Induced Mixing in the PSAN/PMMA Blend ...**

To explain these phenomena, it was proposed [3, 4] that the **free energy** ... that **flow-induced** mixing can, too, be predicted using the stored **energy** concept. ...  
[findarticles.com/p/articles/mi\\_hb3367/is\\_/ai\\_n28749217](http://findarticles.com/p/articles/mi_hb3367/is_/ai_n28749217) - 52k - Cached - Similar pages